Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start		Rating **	М	Issue No.		12	
LM End	Issue Type + Ma Location * N/A						
Category	Earthen L	evee		GPS La	atituc	le/Longitude	
Calegory				Start	N/A Latitude/Longitude End		
Item	Flood Pre	Flood Preparedness & Trainir			0		0
пеш					0		0
DWR ID	DWR_RD2	104_01_s _ 201	2_12				
		Comn	nent Cod	le			
		Inspecto	or Comm	ent			
		vith adjacent o taff flood fight			d fig	hting, but	

No Photos

LM Start		Rating **	Α	Issue No.		14	
LM End		Issue Type +	Ma	Location *	N/A		
Category Earthen Levee			GPS La	atituc	de/Longitude		
Category				Start	Start End		
Item		s & Maintena	nce		0		0
пеш	Manuals				0		0
DWR ID	DWR_RD2	104_01_f _ 201	2_14				
		Comn	nent Coc	le			
		Inspecto	or Comm	nent			
District has	District has the O+M Manual on hand.						

No Photos

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

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Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start		Rating **	Α	Issue No.		40			
LM End		Issue Type +	Ma	Location *		N/A			
LIVILIIG	Earthen L	•	IVIG	CDCI	atitu o	atitude/Longitude			
Category				atituc					
				Start		End			
Itom	Emergency Supplies &				0		٥		
item	tem Equipment				٥		0		
DWR ID	DWR_RD2	104_01_s _ 201	2_40						
		Comn	nent Cod	le					
		Inspecto	or Comm	nent					

District has soil and sand on site, and coordinates with adjacent district 2068 for other materials.

No Photos

LM Start	0.02	Rating **	A/W	Issue No.	18			
LM End	1.45	Issue Type +	Ma	Location *	CR			
Category Earthen Levee				GPS Latitude/Longitude				
				Start		End		
Item	Vegetatio	n		38.3080	53°	38.295298 °		
iteiii				-121.7585	57°	-121.741413 °		
DWR ID DWR_RD2104_01_f _ 2016_18								
Comment Code								

V9: Keep the crown roadway free of vegetation.

Inspector Comment

Photo 1 of 1: SP_2018_RD2104_249_18_20180321_00037.jpg



Spring 2018 - Crown road should be kept free of vegetation.

LM Start	0.17	Rating **	M	Issue No.		20		
LM End	1.72	Issue Type +	Ма	Location *	CR			
Category	Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item		rface / Depres	ssions /	38.3060	52°	38.293465	0	
item	Rutting			-121.7575	82 °	-121.737780	۰	
DWR ID	DWR_RD2	104_01_f _ 201	6_20					
		Cama	ant Can	ام				

Comment Code

C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation

Inspector Comment

Add appropriate material, re-grade and compact for proper drainage. (where needed, AND keep live stock off the crown roadway particularly during rainy weather)

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start	1.20	Rating **	A/W	Issue No.	22			
LM End	1.20	Issue Type +	Ма	Location *	WS			
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory				Start		End		
Item	Erosion / Bank Caving			38.296615°		38.296615 °		
item				-121.7453	72 °	-121.745372 °		
DWR ID	DWR_RD2	104_01_f _ 201	6_22					
		Comn	nent Cod	le				
E2 : Schedule repair of erosion site prior to the next inspection.								

Inspector Comment

Soil was added to restore waterside slope. Continue to monitor for erosion from cattle.



This previous erosion site should be monitored for future erosion from cattle.

LM Start	1.27	Rating **	М	Issue No.		23	
LM End	1.27	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	tegory					End	
Item	Slope Sta	bility		38.2961	82 °	38.296182 °	
item				-121.7443	18°	-121.744318 °	
DWR ID	DWR_RD2104_01_f _ 2016_23						

Comment Code

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Repair the slope damaged by cows and trim up the tree limbs partially blocking the erosion site.

Photo 1 of 1 : SP_2018_RD2104_249_23_20180321_00039.jpg



Spring 2018 - Trees should be trimmed and deadwood removed, and erosion from cattle repaired.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start	1.44	Rating **	U	Issue No.		11
LM End	1.48	Issue Type +	Ma	Location *		WS
Cotogony	evee	GPS La	atitud	e/Longitude		
Category				Start		End
Item	Vegetatio	n		38.2954	87°	38.294947 °
item				-121.741530 °		-121.741215°
DWR ID	DWR_RD2	104_01_f _ 201	7_11			
		Comn	nent Cod	le		
V2 : Remo	ve the wild	growth other	than na	tive grasses	s fro	m the levee
		Inspecto	or Comm	nent		



Remove wild growth to 20 feet from crown.

LM Start	1.45	Rating **	М	Issue No.		13
LM End	4.00	Issue Type +	Ма	Location *		CR
Category	evee	GPS La	atitud	le/Longitude		
Calegory				Start		End
Item	Vegetatio	n		38.2952	98°	38.310680 °
пеш	nem			-121.741413 °		-121.736174°
DWR ID	DWR_RD2	104_01_f _ 201	7_13			
		Comn	nent Cod	de		
V9 : Keep	the crown	roadway free	of veget	ation.		
		la a a a at				
		Inspecto	or Comm	ient		



Crown vegetation should be reduced to facilitate inspection and access.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start	1.72	Rating **	A/W	Issue No.		15
LM End	1.72	Issue Type +	Ма	Location *		WS
Catagoni Earthen Levee				GPS La	atitud	e/Longitude
Category		Start		End		
Item	Cracking			38.2934	65°	38.293465 °
item			-121.737778 °		-121.737778 °	
DWR ID	DWR_RD2	104_01_f _ 201	7_15			
		Comn	nent Cod	le		
CR1 : Mor	nitor and ha	ave inspected	by geote	echnical en	gine	er.
		Inspecto	or Comm	nent		



Curved cracks in crown indicate possible slope instability on waterside slope. Cracks are 8 feet long x up to 6 inches wide x 3 feet deep. No other indications of slope instability observed. Levee toe is approx 40 feet from channel/slough edge.

LM Start	1.93	Rating **	М	Issue No.		16	
LM End	1.94	Issue Type +	Ma	Location *	WS		
Category	evee	GPS La	atitud	e/Longitude			
Calegory				Start		End	
Item	Erosion /	Bank Caving		38.2920	27°	38.291947 °	
пеш	? [[]				-121.734575 °		
DWR ID	DWR_RD2	104_01_s _ 201	2_16			·	
		Comn	nent Cod	de			
E1 : Note	and monito	or erosion site					
		Inspecto	or Comm	nent			



Scalloped bank erosion along slough is approaching levee toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start	3.64	Rating **	М	Issue No.		27
LM End	4.00	Issue Type +	Ma	Location *		LS
Category	evee	GPS La	atitud	e/Longitude		
Calegory				Start		End
Item	Vegetatio	n		38.3066	33 °	38.310697°
пеш				-121.7329	75 °	-121.736157°
DWR ID	DWR_RD2	104_01_f _ 201	7_27			
		Comn	nent Cod	le		
V2 : Remo	ve the wild	d growth other	than na	tive grasses	s fro	m the levee
		Inspecto	or Comm	nent		

No Photos

LM Start	4.00	Rating **	М	Issue No.		21		
LM End	4.00	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	alegory					End		
Item	Slope Sta	bility		38.3106	72 °	38.310672 °		
пеш				-121.7361	55 °	-121.736155 °		
DWR ID DWR_RD2104_01_f _ 2017_21								
	Comment Code							

S2: Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment



Repair landside slope eroded by livestock, and prevent future erosion.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

	_					
LM Start	4.24	Rating **	M	Issue No.		10
LM End	4.72	Issue Type +	Ma	Location *		LS
Earthen Levee				GPS La	atituc	le/Longitude
Category				Start		End
Item	Vegetatio		38.3131	24 °	38.318437 °	
пеш	item				72°	121.744572 °
DWR ID	DWR_RD2	104_01_s _ 201	8_10			
		Comn	nent Cod	le		
V2 : Remo	ove the wild	d growth other	than na	tive grasse	s fro	m the levee
		Inspecto	or Comm	nent		
						-



Landside (left) vegetation should be managed to allow inspection and access to slope and toe.

LM Start	4.24	Rating **	М	Issue No.	17		
LM End	4.72	Issue Type +	Ма	Location *		WS	
Category Earthen Levee			GPS Latitude/Longitude				
Category			Start		End		
Item	Vegetatio	n		38.3131	24°	38.318437 °	
item				-121.7390	72 °	121.744572 °	
DWR ID DWR_RD2104_01_s _ 2018_17							
Comment Code							

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Photo 1 of 1 : SP_2018_RD2104_249_17_20180321_00041.jpg



Waterside (right) vegetation should be managed to 20 feet from crown to allow inspection and access.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start	4.31	Rating **	М	Issue No.	59		
LM End	4.31	Issue Type +	Ма	Location *			
Category	ental	GPS Latitude/Longitude					
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	onsibility	38.3139	55 °	38.313955 °	
пеш				-121.7399	30°	-121.739930 °	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:51459 DS_ID:24705 EP_NO: 10182

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 12/06/2016 Crossing has been downgraded from "Urgent" to "Non-Urgent" no signs of leaks observed along pipe alignment (limited inspection on WS toe). According to LMA representative, this crossing was replaced 6 years ago (2010) at WS concrete apron. Recommend conducting internal inspection of pipe through the levee and LS to determine pipe integrity. (O. Magana - DWR UCIP)12/04/2013 Vegetation and soil buildup throughout pipe preventing flapgate from closing. Remove vegetation to allow gate to close properly. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. 36-inch concrete standpipe on the landside (LS) toe. Flap gate on the waterside (WS) toe. Two corrugated metal cutoff walls installed. (24-inch pipe [HLM 4.65] authorized under Automatic Board Order (ABO) issued as Permit No. 10182, 1974 - Julia Trust Machado). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 108, April 1964, (HLM 4.65), Drawing No. 50-04-3379].

FS Date: 12/6/2016

LM Start	4.31	Rating **	М	Issue No.	59 (cont)
LM End	4.31	Issue Type +	Ma	Location *	

Photo 1 of 3: UCIP_SP_2018_51459_45062.jpg

CMP pipe and flapgate off WS toe.

Photo 2 of 3: UCIP_SP_2018_51459_45061.jpg



36-inch concrete riser on LS toe at channel.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start	4.31 Rating ** M		Issue No.		59 (cont)		
LM End	4.31	Issue Type +	Ма	Location *			
Catagory	Supplemental				GPS Latitude/Longitude		
Calegory					Start		
Item	DWR UC	IP LMA Respo	nsibility	38.31395	5°	38.313955	0
пеш			-121.73993	o°	-121.739930	0	
DWR ID							

Inspector Comment

Comment Code

FS_ID:51459 DS_ID:24705 EP_NO: 10182

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 12/06/2016 Crossing has been downgraded from "Urgent" to "Non-Urgent" no signs of leaks observed along pipe alignment (limited inspection on WS toe). According to LMA representative, this crossing was replaced 6 years ago (2010) at WS concrete apron. Recommend conducting internal inspection of pipe through the levee and LS to determine pipe integrity. (O. Magana - DWR UCIP)12/04/2013 Vegetation and soil buildup throughout pipe preventing flapgate from closing. Remove vegetation to allow gate to close properly. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. 36-inch concrete standpipe on the landside (LS) toe. Flap gate on the waterside (WS) toe. Two corrugated metal cutoff walls installed. (24-inch pipe [HLM 4.65] authorized under Automatic Board Order (ABO) issued as Permit No. 10182, 1974 - Julia Trust Machado). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 108, April 1964, (HLM 4.65), Drawing No. 50-04-3379].

FS Date: 12/6/2016



36-inch concrete riser with vegetation buildup inside.

LM Start	4.57	Rating **	М	Issue No.	25		
LM End	4.65	Issue Type +	Ma	Location *	CR		
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory				Start		End	
Item		rface / Depres	ssions /	38.316984	۱°	38.317904°	
item	Rutting	-121.74275	٥	-121.743461 °			
DWR ID	DWR_RD2104_01_s _ 2018_25						
Comment Code							

C2 : Repair depressions or ruts in the crown or slope.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start	4.72	Rating **	М	Issue No.		19				
LM End	6.16	Issue Type +	Ma	Location *		CR				
Category	Earthen L	evee		GPS La	atitud	le/Longitude				
Calegory				Start		End				
Item	n	38.3184	37°	38.318179°						
пеш				-121.744572 °		° -121.758200 °				
DWR ID	DWR_RD2	104_01_s _ 201	8_19							
		Comn	nent Cod	de						
V9 : Keep	the crown	roadway free	of veget	ation.						
		Inspect	or Comm	nent						

No Photos

LM Start	4.96	Rating **	U	Issue No.		24			
LM End	4.96	Issue Type +	Ма	Location *		LS			
Category	Earthen L	evee		GPS L	atitud	e/Longitude			
Calegory		Start		End					
Item	bility	38.3203	82°	38.320382 °					
пеш	item					5° -121.748155°			
DWR ID	DWR_RD2	104_01_f _ 201	7_24						
		Comn	nent Cod	de					
S1 : Repai	ir slope ins	tability.							
		Inspecto	or Comm	nent					



Landside levee slope has slumped leaving a 2-foot vertical scarp at the shoulder. Site should be repaired.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

LM Start	5.04	Rating **	М	Issue No.		41			
LM End	5.04	Issue Type +	Ma	Location *		LS			
Category	evee		GPS La	atitud	e/Longitude				
Calegory				Start		End			
Erosion / Bank Caving				38.3215	82°	38.321582 °			
пеш	item				46°	6° -121.748546°			
DWR ID	DWR_RD2	104_01_s _ 201	2_41						
		Comn	nent Cod	de					
E1 : Note	and monito	or erosion site							
		Inspecto	or Comm	nent					
Note and r	monitor the	e erosion site.							

No Photos

LM Start	5.07	Rating **	М	Issue No.		55
LM End	5.14	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Erosion /	Bank Caving		38.3218	83°	38.322872 °
item				-121.7485	27°	-121.748700°

DWR ID DWR_RD2104_01_s _ 2013_55

Comment Code

E1: Note and monitor erosion site.

Inspector Comment

Livestock are causing erosion and slumping at landside levee shoulder. Access should be prevented. Site should be monitored.

LM Start	5.35	Rating **	М	Issue No.	33		
LM End	5.36	Issue Type +	Ма	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Erosion / Bank Caving			38.323595 °		38.323730°	
пеш				-121.752295 °		-121.752430 °	
DWR ID DWR_RD2104_01_s _ 2012_33							
Comment Code							

E1: Note and monitor erosion site.

Inspector Comment

Note and monitor the erosion site.

No Photos

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2104 Peters Pocket Tract

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	03/20/2018 03/20/2018	Keith Millard

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain